

ABSTRACT OF THE DISCLOSURE

The present invention provides control systems and methods for a cooling unit. The system includes a temperature sensor that senses the temperature of a cooling fin and a circuit. The circuit may communicate with a signal from the cooling unit that indicates when cooling is required. The circuit also communicates with the sensor and turns off the heat source of the cooling unit if the temperature does not decrease within a pre-selected time after cooling becomes required. Additionally, the circuit may turn off the heat source only if the temperature is above a pre-selected temperature. Moreover, a pre-selected time after turning off the heat source, the circuit may turn the heat source on.